

## PATENT ABSTRACTS OF JAPAN

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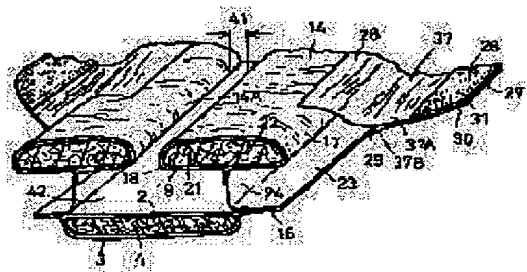
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## (54) EXPENDABLE DIAPER

## (57)Abstract:

PROBLEM TO BE SOLVED: To provide a diaper having a front girth area, a rear girth area, and a groin area located between them along the longitudinal direction and having a high leakproof effect without strongly sticking it to the skin by providing a leakproof wall having an erecting property from the inner face of the diaper at least on the side edge section of the groin area.

SOLUTION: This expendable diaper has a liquid-permeable surface sheet 2, a liquid-nonpermeable back sheet 3, and a liquid absorbing core 4, and it is provided with a front girth area, a rear girth area, and a groin area located between them along the longitudinal direction. A pair of cushion pads 14 extended in the longitudinal direction are arranged on the inner face of the diaper, and each cushion pad 14 is formed with a cylindrical cover member 18 made of a hydrophobic sheet 17. The hydrophobic sheet 17 is extended to the inner face of the diaper from the cover member 18, and the extended tip section 23 is folded toward the outside and is stuck to the surface sheet 2, thereby the hydrophobic sheet 17 between the cover member 18 and the surface sheet 2 serves as a leakproof wall 24.



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2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

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CLAIMS

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[Claim(s)]

[Claim 1] The \*\*\*\*\* surface sheet characterized by providing the following, and a non-\*\*\*\*\* rear-face sheet, It consists of an absorbent core which intervenes among both [ these ] sheets. the longitudinal direction of order The circumference region of a forward fuselage assembly, The disposable diaper equipped with the anti-leak barrier of the couple which consists of a circumference region of a back drum, and a length-from-the-crotch-to-the-cuff region located among both [ these ] regions, has been prolonged to the aforementioned longitudinal direction at least in the side edge section of the aforementioned length-from-the-crotch-to-the-cuff region, and has a standing-up disposition from a diaper inside. Elastic extensibility to the aforementioned longitudinal direction. Elastic compressibility to the thickness direction of the aforementioned diaper.

[Claim 2] the tubed covering member which the aforementioned cushion pad becomes from a hydrophobic nonwoven fabric, and the aforementioned covering -- the elastic member which has joined to the inside of a member and is elongated to the aforementioned longitudinal direction, and the aforementioned covering -- the diaper according to claim 1 which consists of cushion members which consist of a filament in which a large number which have extended in parallel mutually to the aforementioned longitudinal direction in the inside of a member carried out the crimp

[Claim 3] the aforementioned filament consists of with a fineness [ 0.5-10d ] filaments -- having -- the aforementioned covering -- the diaper according to claim 2 which forms 30 - 80% of the cross section of a member

[Claim 4] The elastic wing which has the elastic extensibility from each of the side edge section of the circumference region of an after [ the above ] drum to the aforementioned diaper cross direction has extended to the side. It consists of 2nd elastic wings located in the 1st elastic wing [ which is located in a diaper inside side, respectively ] and diaper external surface side of the aforementioned wing. these 1st and 2 elastic wing -- the above -- it has joined mutually at the extension edge to the side, and the end face section which is an opposite edge of the aforementioned extension edge The diaper according to claim 1 to 3 which it of the aforementioned 1st elastic wing joined to the aforementioned cushion pad partially at least, and it of the aforementioned 2nd elastic wing has joined to the side edge outside side of the circumference region of an after [ the above ] drum.

[Claim 5] alienation of the inside edges of the aforementioned cushion pad in the aforementioned length-from-the-crotch-to-the-cuff region -- the diaper according to claim 1 to 4 which has a size in the range of 0-20mm

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再審 (訴願) 引証附件

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(32)1997/09/30 (33)日本

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[57]申請專利範圍:

- 1.一種用完就丟式紙尿褲，係針對：由透液性表層、不透液性裡層、以及介於此兩層間之吸液芯所組成；且其長邊方向則由前軀幹周圍區域、後軀幹周圍區域、以及位於此兩區域間之胯下區域所構成；且至少在上述胯下區域的側緣部，具備：往上述長邊方向延伸，且自紙尿褲內部立之一對的防漏壁之用完就丟式紙尿褲，其特徵為：  
具有上述往長邊方向彈性地伸長、以及往厚度方向彈性地壓縮之性質，且寬度為20~100mm之彈性墊，在往上述長邊方向伸長的狀態下，被配置在上述各個防漏壁頂部。
- 2.如申請專利範圍第1項所述之用完就丟式紙尿褲，其中，上述緩衝墊係由：以疏水性不織布所構成之圓筒狀覆蓋構件、接合於上述覆蓋構件內面且往上述長邊方向伸長之彈性構件、以及位於上述覆蓋構件內側、由往上述長邊方向相

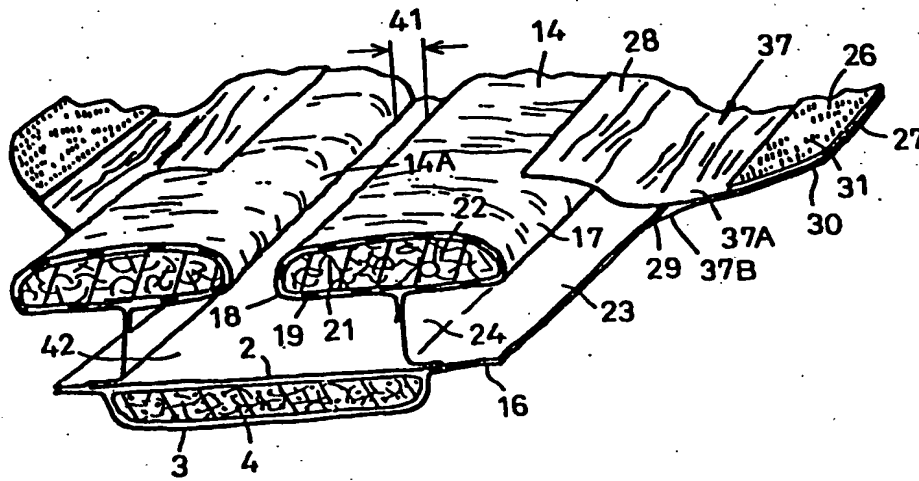
互並行延伸之捲曲纖維所形成之緩衝構件所構成。

- 3.如申請專利範圍第2項所述之用完就丟式紙尿褲，其中，上述纖維係由纖維度0.5~10d之纖維所構成，占上述覆蓋構件剖面面積之30~80%。
- 4.如申請專利範圍第1、2或3項所述之用完就丟式紙尿褲，其中，具有往上述紙尿褲的橫寬方向彈性地伸長之彈性翼，分別自上述後軀幹周圍區域之側緣部，往側方延伸出；而上述彈性翼係由：位於紙尿褲內側之第1彈性翼、以及位於紙尿褲外側之第2彈性翼所構成；第1彈性翼與第2彈性翼，於上述側方之延伸出端部上，相互接合在一起；而且，上述延伸出端部之相對面之基端部，其上述第1彈性翼的基端部，至少有一部份與上述彈性墊接合，而上述第2彈性翼的基端部則與上述後軀幹周圍區域之側緣部外面互相接合。
- 5.
- 10.
- 15.
- 20.

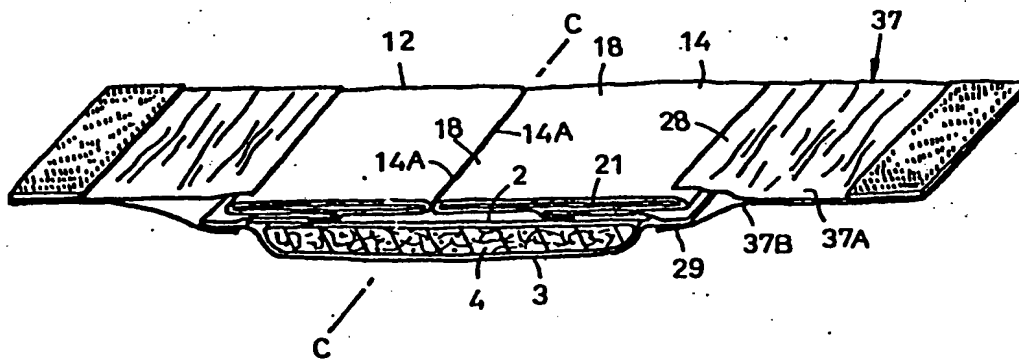
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第二圖



第三圖